



USCGC GALLATIN (WHEC-721)
378 FOOT HIGH ENDURANCE CUTTER
SPECIFICATION FOR EMERGENCY DOCKSIDE REPAIRS
2008

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List of Sketches

Work
Item

Sketch Number

Page

This section is not applicable to this package.

Revisions Record

This page is used to record specification revisions, which may have occurred subsequent to a Revision 0 (Rev-0) package. Information listed is intended to provide contractors and field unit personnel a means to ensure all the current specification revision pages are present when reviewing or utilizing this specification package.

DATE	REV#	WORK ITEM#	CHANGES MADE
9/16/08	1	2,4, 7, & 9	Rename the work item titles

NOTE: All work item and paragraph numbers listed above for a given revision correspond to same numbers in the previous revision. This revised specification is self-contained with all of the above listed changes incorporated.

List of Applicable References

The below-listed documents form a part of this specification to the extent specified herein. Approval/publication dates or revision dates/numbers are also identified, to ensure that same document versions are used at time of specification writing and during contract execution. Electronic copies of the latest Editions of MLCA Standard Specifications are available on the Internet and may be accessed at the following Internet Uniform Resource Locator (URL) address:

http://www.uscg.mil/mlclant/vdiv/standard_specifications.asp.

Guidance for obtaining copies of all other documents referenced herein is provided in the solicitation.

Order of precedence. In the event of conflicts between text of this specification and the applicable references specified herein, order of precedence shall be in accordance with MLCA Standard Specification 0000_STD, paragraph 3.2 (Order of precedence), unless otherwise specified by the Contracting Officer (KO). The Contractor shall immediately notify the KO in writing of any perceived conflicts contained herein. Nothing in these documents, however, supersedes applicable laws and regulations, unless a specific exemption has been obtained.

FEDERAL AND MILITARY SPECIFICATIONS AND STANDARDS

Federal Specification (Fed Spec) DDD-C-95, Mar 1972, Carpets and Rugs, Wool, Nylon, Acrylic, Modacrylic

MIL-STD-1623, Dec 1981, Fire Performance Requirements and Approved Specifications for Interior Finish Materials and Furnishings

OTHER GOVERNMENT DOCUMENTS, DRAWINGS, AND PUBLICATIONS

DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0000_STD, 2006 Edition, General Requirements

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0740_STD, 2004 Edition, Welding and Allied Processes

DRAWINGS

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Coast Guard Drawing 378 FRAM E 508-1, Rev E, Insulation,
Lagging, Piping - Machinery

Coast Guard Drawing 378 FRAM-E 123-1, Rev E, MN DK Enclosure
Bulkheads

Coast Guard Drawing 378 FRAM-E 123-3, Rev C, MISC Structural
Enclosures

Coast Guard Drawing 378 FRAM-E 131-2, Rev F, MN DK Plating &
Framing - FWD

Coast Guard Drawing 378 FRAM-E 132-1, Rev D, 2ND DK Plating &
Framing - FWD

Coast Guard Drawing 378 FRAM-E 133-1, Rev E, 3RD DK Plating &
Framing - FWD

Coast Guard Drawing 378 FRAM-E 136-2, Rev D, 01 DK Plating &
Framing - AFT

Coast Guard Drawing 378 FRAM-E 142-1, Rev E, 2nd & 3rd Deck
Plating Aft

Coast Guard Drawing 378 FRAM-E 167-002, Rev D, List of Hatches,
Scuttles and Accessories

Coast Guard Drawing 378 FRAM-E 167-003, Rev F, List of
Structural Doors & Accessories

Coast Guard Drawing 378-FRAM-E_533_12, Rev F, Potable Water
Machinery Space L/M

Coast Guard Drawing 378-FRAM-E_533_9, Rev G, Potable Water
System FWD Frame 192 L/M

Coast Guard Drawing 378-FRAM-E_541_16, Rev D, FO Transfer Aft
Frame 256

Coast Guard Drawing 378-FRAM-E_542_2, Rev F, JP-5 Fuel System

Coast Guard Drawing 378-FRAM-E-111-1, SHL & DK Plating, Rev B,
July 1991

PUBLICATIONS

Coast Guard Commandant Instruction (COMDTINST) M10360.3B,
(series), Coatings and Color Manual

List of Government-furnished Property

The following is a list of property, which the Government will furnish. This list supersedes any other material obligations indicated or implied by referenced drawings.

WORK ITEM	MTI	ITEM DESCRIPTION	NSN/PN	QTY	ESTIMATED COST (\$/UNIT)

*Government-loaned property, which shall be returned to the vessel upon completion of the availability.

**New or refurbished equipment that the Government may provide for installation in place of existing equipment.

***Government-furnished property, which is to be supplied by either the vessel, Electronic Systems Support Unit (ESU) or local Electronic Support Detachment (ESD).

List of Critical Inspection Items

The following is a list of work items, which contain Critical Inspection reports, which the Contractor must complete within the first 25% of the availability contract period (see Std Spec 0000_STD, paragraph 3.6.2 (Inspection report particulars)):

Work

<u>Item</u>	<u>Title</u>
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This section is not applicable to this package.

Specification Feedback

The intent of this section is to inform all users that a spec feedback mechanism is in place, and is located on the MLCA Naval Engineering Division's website. Spec feedback is a very important part of our overall continuous improvement process, and is crucial to specification development. It will allow spec writers to capture all specification-related lessons learned, and avoid mistakes or ambiguities in follow-on availabilities. All feedback will be reviewed, evaluated, and responded to in a timely manner.

If you have access to the CGWeb (Intranet), please use the following link, which will connect you to the MLCA(v) Naval Engineering website, for submitting your feedbacks:

<http://webapps.mlca.uscg.mil/vdiv/specifications/feedback/default.cfm>

If you do not have access to the CGWeb (Intranet), you may still submit your feedbacks, using the following web link:

<http://www.uscg.mil/mlclant/vdiv/specfeedback.asp>

Principal Characteristics

378' WHEC "Gallatin" High Endurance Cutter	
Length Overall	378' 3"
Depth (main deck at side to baseline)	26' 3/8"
Maximum Beam	43' 3/4"
Frame Spacing	1' 0"
Full Load Draft	15' 0"
Full Load Displacement	3150 long tons
Shore Tie Voltage Requirements	440
PROPELLER / SHAFT	
Number of Propellers	2
Number of Blades per Propeller	4
Diameter of Propeller	13' 0"
Pitch	Controllable
Revolutions per Minute (RPM)	235

00000_PWB_FLT (10 Sep 2008)

General Requirements

1. SCOPE

1.1 Intent. This item describes the general requirements to be followed by the Contractor while conducting this availability.

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA),
Standard Specification 0000_STD, 2006 Edition, General
Requirements

Coast Guard Maintenance and Logistics Command Atlantic (MLCA)
Standard Specification 0740_STD, 2004 Edition, Welding and
Allied Processes

Coast Guard Commandant Instruction (COMDTINST) M10360.3
(series), Jun 2006, Coatings and Color Manual

3. REQUIREMENTS

3.1 General. The Contractor shall conform to all requirements specified in Std Spec 0000_STD and in this item, as applicable, during the performance of this availability.

NOTICE!

The requirements of paragraph 3.1 (General) applies to all work under the scope of this contract, whether explicitly stated in work items or not, and also to all other work subsequently authorized by changes, modifications, or extensions to the contract.

3.2 Contractor-provided fire extinguishers. The Contractor shall provide portable fire extinguishers.

3.3 Welding and brazing requirements. The Contractor shall perform all welding and allied processes, and nondestructive inspection (NDI), in accordance with Std Spec 0740_STD.

3.4 Term substitution - COTR for COR. The Contractor shall be aware that the term "COR" (Contracting Officer's Representative) has been discontinued in favor of "COTR" (Contracting Officer's

Technical Representative); consequently, whenever "COR" is encountered in this specification package, including referenced standard specifications and other referenced documents, it shall refer to "COTR", explicitly.

3.5 Small boat storage particulars. When a small boat (Over-the-Horizon (OTH)/Rigid Hull Inflatable (RHI) boat) is removed as interference to Contractor-work, the Contractor shall provide a suitable pierside storage cradle, for safely storing said boat.

3.5.1 Cradle design. Ensure that the cradle meets the following criteria:

- Be capable of safely supporting a boat weighing approximately 5100 pounds.
- Support the boat at the following locations:
 - Along the full length of the flat portion of the keel.
 - Forward and aft, in the locations similar to those provided by the shipboard davit cradle.
- Have the portions of the cradle directly contacting the hull or keel of the boat made from a homogeneous soft wood, such as Yellow Pine or Douglas Fir.

3.5.2 Boat protective cover. Provide a watertight cover with raised wooden spreaders, to protect the small boat from nature, during the storage period.

3.5.3 Boat accessibility. Ensure the storage is located in the vicinity of the vessel, and is unrestricted, to allow for ship's force to complete maintenance, if required.

4. NOTES

4.1 Access to COMDTINST M10360.3. The COMDTINST M10360.3 may be accessed at the following URL address:

<http://www.uscg.mil/directives/cim.asp>

4.2 QA inspection forms. QA inspection forms (QA-1 thru QA-5), required in Std Spec 0000_STD to be completed and submitted during preservation of "critical-coated surfaces", are provided at the end of this item.

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QA-1: QUALITY ASSURANCE INSPECTION FORM - PRESERVATION CHECKLIST

CHECKPOINT 1 - COATING SYSTEM COMPLIANCE	
	Ensure all coatings are in compliance with COMDTINST M10360.3, Appendix C.
CHECKPOINT 2 - PAINT STORAGE	
	Ensure all coatings are kept at a temperature of 65 to 85°F at all times, unless otherwise specified by the coating manufacturer(s).
CHECKPOINT 3 - AMBIENT CONDITIONS	
	Ensure surface and surrounding temperatures are each between 50 and 90°F for water-based coatings, and 35 and 95°F for other coatings, unless otherwise specified by the coating manufacturer(s).
	Ensure maximum relative humidity (RH) is as follows, from surface preparations through final curing of topcoat: 50% for tanks, voids, and vent plenum; and 85% for all other areas, unless otherwise specified by manufacturer(s).
	Ensure surface temperature is at least 5°F above the dew point, unless otherwise specified by the coating manufacturer(s).
CHECKPOINT 4 - PRE-SURFACE PREPARATION	
	Remove surface contaminants (soluble salts, loose rust, mud, and marine growth) with low pressure fresh water wash down (maximum 5,000 psi). If oil and grease are present, perform solvent cleaning, as per SSPC SP-1.
CHECKPOINT 5 - SURFACE PREPARATION	
	Verify environmental conditions (see CHECKPOINT 3).
	Ensure cleanliness of prepared surface is as per specification (i.e.: SSPC SP-12, SP-11, SP-10?).
	Verify surface anchor profile (1.5-3.5 mils for abrasive-blasted steel surfaces; 1.0 mil (minimum) for power-tool cleaned surfaces; 1.0-1.5 mils for abrasive-blasted aluminum surfaces); and 1.5 -2.5 for surfaces to be coated w/single coat of inorganic zinc).
	Measure soluble salt conductivity (5 measurements per 1000 sqft) - maximum threshold: 70 microsiemens/cm for non-submerged surfaces and 30 microsiemens/cm for submerged surfaces.
CHECKPOINT 6 - PRIMER COAT APPLICATION	
	Verify environmental conditions (see CHECKPOINT 3).
	Verify proper mixing and stand-in (induction) times.
	Ensure no paint is applied when the temperature is expected to drop to freezing before the paint has dried.
	Ensure surfaces are completely dry, unless otherwise allowed by the Coating Manufacturer(s).
	Verify wet film thickness at random, to prevent under or over application.
	Brush out all runs, sags, drips, and puddles.
	Perform visual inspection for holidays and other defects.
CHECKPOINT 7 - STRIPE COAT APPLICATION	
	Verify environmental conditions (see CHECKPOINT 3).
	Ensure overcoating window is as per manufacturer's instructions.
	After primer coat (mist coat after inorganic zinc), brush-apply un-thinned coat of same primer paint over edges, weld seams, cut-outs, and areas of complex geometries @ 3-4 mils wet film thickness (WFT).
CHECKPOINT 8 - TOP COAT APPLICATION	
	Verify environmental conditions (see CHECKPOINT 3).
	Ensure overcoating window is as per manufacturer's instructions.
	Verify proper mixing and stand-in (induction) times, as applicable.
	Verify wet film thickness at random, to prevent under or over application.
	Brush out all runs, sags, drips, and puddles.
CHECKPOINT 9 - FINAL INSPECTION	
	Verify final system dry film thickness.
	Verify system cure for service resumption - U/W Body surfaces: 5-8 hours @ 77 degrees F; Potable water tanks: 7 days @ 77 degrees F.
	Ensure potable water tank exhaust ventilation is maintained continuously from and during coating application through final system cure (minimum 7 days @ 77 degrees F.), to exhaust all solvent to the atmosphere and to prevent solvent entrapment.
CHECKPOINT 10 - RECORD KEEPING	
	Complete, sign, and submit all provided QA Inspection Forms.

Signature of Inspector: _____ Date: _____

QA-2: QUALITY ASSURANCE INSPECTION FORM
ENVIRONMENTAL READINGS

(Use one sheet for each activity. Record conditions every four hours from before surface preparation to application of final coating system coat)

DATE	TIME	ENTER ACTIVITY (Surface preparation, primer coat, barrier coat, top coat, etc?)	LOCATION	DEW POINT	SURFACE TEMP.	% REL. HUMIDITY	SIGNATURE OF INSPECTOR

Signature of Inspector: _____ Date: _____

QA-3: QUALITY ASSURANCE INSPECTION FORM
SURFACE PROFILE LOG

Vessel Name And Hull Number: _____

Work Item Title: _____

Location Of Work (Including Frame Numbers): _____

Area (Square Feet): _____

Surface Preparation Method: _____

Abrasive Manufacturer And Size: _____

Degreasing Method Used: _____

Number Of Hours Surfaces (Steel Only) Left Unpainted: _____

Sweep blasting performed to remove flash rusting (steel)? Yes/No: _____

Place Surface Profile Replica Tapes In The Spaces Provided Below, To Serve As Permanent QA record. Maintain separate log for each area/location. When an Area Is Divided Into Separate Sections, Maintain A Separate Log for Each Section.		AVERAGE MILS (IAW ASTM D4417, METHOD C)
Place Surface Profile Replica Tape Here Reading: _____ mils	<ul style="list-style-type: none"> Place Surface Profile Replica Tape Here Reading: _____ mils	
Place Surface Profile Replica Tape Here Reading: _____ mils	Place Surface Profile Replica Tape Here Reading: _____ mils	
Place Surface Profile Replica Tape Here Reading: _____ mils	Place Surface Profile Replica Tape Here Reading: _____ mils	
Place Surface Profile Replica Tape Here Reading: _____ mils	Place Surface Profile Replica Tape Here Reading: _____ mils	

Date and Time: _____

Location of Surface Profile Measurements: _____

Signature of Inspector: _____

QA-4: QUALITY ASSURANCE INSPECTION FORM
SURFACE SOLUBLE SALT CONDUCTIVITY LOG

Vessel Name and Hull Number: _____

Work Item Title: _____

Location of Work (including frame numbers): _____

Area (square feet): _____

DATE	TEST LOCATIONS	CONDUCTIVITY (microsiemens/cm)

Date and Time: _____

Signature of Inspector: _____

QA-5: QUALITY ASSURANCE DATA FORM
DRY FILM THICKNESS (DFT) MEASUREMENTS IAW SSPC PA-2
 (Use one sheet for each sequence)

Vessel Name and Hull Number: _____

Work Item Title: _____

Coating Manufacturer: _____

Product Name: _____

Batch Number: _____

Induction Time: _____

Coating System Sequence (Indicate whether: primer, touch-up primer, barrier coat, 3rd coat?): _____

DFT MEASUREMENT NUMBER	LOCATION OF READINGS	MEASURED DFT
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

Application Method (Airless, Conventional Spray, Rolled): _____

Average DFT: _____

Date and Time: _____

Signature of Inspector: _____

WORK ITEM 1: Renew Structural Plating

1. SCOPE

1.1 Intent. This work item describes the requirements for the Contractor to renew approximately 9 square feet of structural plating at various locations throughout the ship.

1.2 Government-furnished property.

None

2. APPLICABLE DOCUMENTS

Coast Guard Drawing 378-FRAM-E-111-1, SHL & DK Plating, Rev B, July 1991

Coast Guard Maintenance and Logistics Command Atlantic (MLCA) Standard Specification 0740_STD, 2004 Edition, Welding and Allied Processes

3. REQUIREMENTS

3.1 General. The Contractor shall renew approximately 9 square feet of structural plating in the compartments listed below as indicated by the Coast Guard inspector. Contractor shall renew structure using Coast Drawing Coast Guard Drawing 378-FRAM-E-111-1.

3.1.1 Compartment List.

ZONE NUMBER	COMPARTMENT	DESCRIPTION OF WORK	APPROXIMATE AREA
1	Engine Room, 5-192-01-E	Renew aft bulkhead overtop of each shaft*	3' X 6'
14	Reefer Flats, 3-280-0-Q	Renew aft bulkhead*	4' X 1'
35	Repair III, 2-304-0-L	Renew Doubler plate forward of WTH	3' X 1'
44	Fan Space, 01-97-1-Q	Install insert in bulkhead	1' X 1'
45	Fan Space, 01-97-2-Q	Install insert around stuffing tube in bulkhead*	1' X 1'

* Indicates a compartment with an interference listed below

3.1.2 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to the following:

- Zone 1: JP-5 Tank
- Zone 14: Reefer Compressor
- Zone 45: Controller, Fan

3.1.3 Protective measures. The Contractor shall furnish and install suitable covering to seal off and protect all non-affected surfaces/equipment and spaces in the vicinity of the work area against contamination during the performance of work. Upon completion of work, remove protective material and inspect for the presence of contamination. Clean all equipment and spaces, contaminated due to improper protection, to original condition of cleanliness.

3.2 Nondestructive testing. The Contractor shall conduct non-destructive testing of new structure, using magnetic particle, liquid penetrant, or eddy current methods, either singly or in combination, as appropriate. The Contractor shall perform all welding inspection requirements as specified in STD Spec 0740_STD. Submit a CFR.

3.3 Touch-up preservation. The Contractor shall prepare and coat all new and disturbed exterior and interior surfaces to match existing adjacent surfaces, in accordance with COMDTINST M10360.3, Appendix A (Cutters and Boats Exterior Painting Systems) and Appendix B (Cutters and Boats Interior Painting Systems), respectively, and as applicable, to match existing adjacent surfaces. Abide by all touch-up requirements outlined in paragraph 3.11.9 (Touch-ups and minor coating repairs) of Std Spec 0000_STD.

4. NOTES

This section is not applicable to this work item.

WORK ITEM 2: Renew Dry Stores Structural Plating

1. SCOPE

1.1 Intent. This work item describes the requirements for the Contractor to renew approximately 4 square feet of optional structural plating at various locations throughout the ship.

1.2 Government-furnished property.

None

2. APPLICABLE DOCUMENTS

Coast Guard Drawing 378-FRAM-E-111-1, SHL & DK Plating, Rev B, July 1991

Coast Guard Maintenance and Logistics Command Atlantic (MLCA) Standard Specification 0740_STD, 2004 Edition, Welding and Allied Processes

3. REQUIREMENTS

3.1 General. The Contractor shall renew approximately 4 square feet of structural plating in the compartments listed below as indicated by the Coast Guard inspector. Contractor shall renew structure using Coast Drawing Coast Guard Drawing 378-FRAM-E-111-1.

3.1.1 Compartment List.

ZONE NUMBER	COMPARTMENT	DESCRIPTION OF WORK	APPROXIMATE AREA
15	Dry Stores, 3-280-2-L	Remove access cover and install insert*	2' X 2'

* Indicates a compartment with an interference listed below

3.1.2 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to the following:

- Zone 15: JP-5 Tanks

3.1.3 Related work item. The Contractor shall accomplish this work item in conjunction with "Renew Insulation" and "Renew Deck Plating", which are separate work items in the specification package.

3.1.4 Protective measures. The Contractor shall furnish and install suitable covering to seal off and protect all non-affected surfaces/equipment and spaces in the vicinity of the work area against contamination during the performance of work. Upon completion of work, remove protective material and inspect for the presence of contamination. Clean all equipment and spaces, contaminated due to improper protection, to original condition of cleanliness.

3.2 Nondestructive testing. The Contractor shall conduct non-destructive testing of new structure, using magnetic particle, liquid penetrant, or eddy current methods, either singly or in combination, as appropriate. The Contractor shall perform all welding inspection requirements as specified in STD Spec 0740_STD. Submit a CFR.

3.3 Touch-up preservation. The Contractor shall prepare and coat all new and disturbed exterior and interior surfaces to match existing adjacent surfaces, in accordance with COMDTINST M10360.3, Appendix A (Cutters and Boats Exterior Painting Systems) and Appendix B (Cutters and Boats Interior Painting Systems), respectively, and as applicable, to match existing adjacent surfaces. Abide by all touch-up requirements outlined in paragraph 3.11.9 (Touch-ups and minor coating repairs)) of Std Spec 0000_STD.

4. NOTES

This section is not applicable to this work item.

WORK ITEM 3: Renew Deck Plating

1. SCOPE

1.1 Intent. This work item describes the requirements for the Contractor to repair approximately 48 square feet of deck plating as designated by the Coast Guard Inspector.

1.2 Government-furnished property.

None

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0000_STD, 2006 Edition, General Requirements

Coast Guard Drawing 378 FRAM-E 132-1, Rev D, 2ND DK Plating & Framing - FWD

Coast Guard Drawing 378 FRAM-E 133-1, Rev E, 3RD DK Plating & Framing - FWD

Coast Guard Drawing 378 FRAM-E 136-2, Rev D, 01 DK Plating & Framing - AFT

Coast Guard Drawing 378 FRAM-E 142-1, Rev E, 2nd & 3rd Deck Plating Aft

Coast Guard Commandant Instruction (COMDTINST) M10360.3, (series), June 2006, Coatings and Color Manual

3. REQUIREMENTS

3.1 General. The Contractor shall renew approximately 48 square feet of deck plating in the compartments listed below as indicated by the Coast Guard inspector. Contractor shall renew structure using the applicable Coast Guard drawing.

3.1.1 Compartment List.

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ZONE NUMBER	COMPARTMENT	DESCRIPTION OF WORK	APPROXIMATE AREA
5	Gym, 3-48-0-A	Renew multiple small sections of overhead. *	5 SQFT
10	Aux Machinery, 3-179-1-E	Renew material to repair hole in fuel tank overhead*	5" X 5"
14	Reefer Flats, 3-280-0-Q	**Renew aft section of deck. Plate installed to repair hole in deck over void. Additional plate installed to repair port P/W tank*	10 SQFT 4' X 6" 1' X 1'
17	Bulk Stores, 3-304-01-A	Renew section of "upper" deck*	1' X 1'
30	Crew's Lounge, 2-168-2-L	Renew deck around FCC unit*	3 SQFT
37	Aft Steering, 2-320-0-E	Renew section of deck in forward starboard area*	6' X 4'
48	Fan Plenum, 01-203-2-Q	Renew section of deck*	1' X 1'

* Indicates a compartment with an interference listed below

**Indicates additional comments in the requirements section below

3.1.2 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to the following:

- Zone 5: Cables, Sounding Tube, Large Cabinets Overhead
- Zone 10: Piping, Removal and Disposal of up to 100 gallons of fuel, Gas Free for fuel
- Zone 14: Reefer Compressor, PW Tank Disinfect and Preserve
- Zone 17: Wiring
- Zone 30: FCC Unit, Carpeting, Insulation
- Zone 37: Emergency Switchboard
- Zone 48: Ventilation Duct

3.1.3 Related work item. The Contractor shall accomplish this work item in conjunction with "Renew Insulation" and "Renew Hull Plating", which are separate work items in the specification package.

3.1.4 Protective measures. The Contractor shall furnish and install suitable covering to seal off and protect all non-affected surfaces/equipment and spaces in the vicinity of the work area against contamination during the performance of work. Upon completion of work, remove protective material and inspect for the presence of contamination. Clean all equipment and spaces, contaminated due to improper protection, to original condition of cleanliness.

3.2 Nondestructive testing. The Contractor shall conduct non-destructive testing of new structure, using magnetic particle, liquid penetrant, or eddy current methods, either singly or in combination, as appropriate. The Contractor shall perform all welding inspection requirements as specified in STD Spec 0740_STD. Submit a CFR.

3.5 Surface preservation. The Contractor shall prepare and coat the deck plating surfaces in accordance with Std Spec 0000_STD, paragraph titled "General preservation requirements", using the coating system specified for "Decks, Metal Interior And Non-Skid Areas (Steel Decks - Dry Areas And Low Wear Areas)" in COMDTINST M10360.3, Appendix B (Cutters and Boats Interior Painting Systems). Select finish/top coat color to match existing adjacent surfaces.

3.6 Tank disinfecting. After all other work involving the potable water system and tank closing have been completed, the Contractor shall disinfect and treat the affected potable water tank(s), as necessary to meet or exceed the requirements of AWWA C652. After tank disinfecting, remove and dispose of all treated water in accordance with all Federal, state and local regulations.

4. NOTES

This section is not applicable to this work item.

WORK ITEM 4: Renew Windlass Room Deck Plating

1. SCOPE

1.1 Intent. This work item describes the requirements for the Contractor to repair approximately 22 square feet of optional deck plating as designated by the Coast Guard Inspector.

1.2 Government-furnished property.

None

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA), Standard Specification 0000_STD, 2006 Edition, General Requirements

Coast Guard Drawing 378 FRAM-E 131-2, Rev F, MN DK Plating & Framing - FWD

Coast Guard Commandant Instruction (COMDTINST) M10360.3, (series), June 2006, Coatings and Color Manual

3. REQUIREMENTS

3.1 General. The Contractor shall renew approximately 22 square feet of deck plating in the compartments listed below as indicated by the Coast Guard inspector. Contractor shall renew structure using the applicable Coast Guard drawing.

3.1.1 Compartment List.

ZONE NUMBER	COMPARTMENT	DESCRIPTION OF WORK	APPROXIMATE AREA
19	Windlass Room, 2-16-0-E	Renew Deck surrounding access to flam stores*	22 SQFT

* Indicates a compartment with an interference listed below

3.1.2 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to the following:

- Zone 19: Sounding Tubes, Stuffing Tubes, Ladder

3.1.3 Related work item. The Contractor shall accomplish this work item in conjunction with "Renew Insulation" and "Renew Hull Plating", which are separate work items in the specification package.

3.1.4 Protective measures. The Contractor shall furnish and install suitable covering to seal off and protect all non-affected surfaces/equipment and spaces in the vicinity of the work area against contamination during the performance of work. Upon completion of work, remove protective material and inspect for the presence of contamination. Clean all equipment and spaces, contaminated due to improper protection, to original condition of cleanliness.

3.2 Nondestructive testing. The Contractor shall conduct non-destructive testing of new structure, using magnetic particle, liquid penetrant, or eddy current methods, either singly or in combination, as appropriate. The Contractor shall perform all welding inspection requirements as specified in STD Spec 0740_STD. Submit a CFR.

3.5 Surface preservation. The Contractor shall prepare and coat the deck plating surfaces in accordance with Std Spec 0000_STD, paragraph titled "General preservation requirements", using the coating system specified for "Decks, Metal Interior And Non-Skid Areas (Steel Decks - Dry Areas And Low Wear Areas)" in COMDTINST M10360.3, Appendix B (Cutters and Boats Interior Painting Systems). Select finish/top coat color to match existing adjacent surfaces.

4. NOTES

This section is not applicable to this work item.

WORK ITEM 5: Repair and Renew Wasted and Damaged Structural Elements

1. SCOPE

1.1 Intent. This work item describes the requirements for the Contractor to repair and renew approximately 85 feet of various wasted and damaged structural elements and frames as designated by the Coast Guard Inspector.

1.2 Government-furnished property.

None

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA),
Standard Specification 0000_STD, 2006 Edition, General
Requirements

Coast Guard Maintenance and Logistics Command Atlantic (MLCA),
Standard Specification 0740_STD, 2004 Edition, Welding and
Allied Processes

Coast Guard Commandant Instruction (COMDTINST) M10360.3, Series
June 2006, Coatings and Color Manual

Coast Guard Drawing 378 FRAM-E 123-1, Rev E, MN DK Enclosure
Bulkheads

Coast Guard Drawing 378 FRAM-E 123-3, Rev C, MISC Structural
Enclosures

3. REQUIREMENTS

3.1 General. The Contractor shall either repair or renew approximately 85 feet of structural elements in the compartments listed below as indicated by the Coast Guard inspector. Contractor shall renew structures using the applicable Coast Guard drawing.

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3.1.1 Compartment List.

ZONE NUMBER	COMPARTMENT	DESCRIPTION OF WORK	APPROXIMATE AREA
1	Engine Room, 5-192-01-E	Repair welds on longitudinals from frame 228 to 234 in starboard side lower ER. Renew starboard side longitudinal stringers from frame 210 to 228	30 FT 50 FT
6	Ship's Store 3-88-2-A	Renew heavily corroded exposed longitudinal section*	3 FT
13	JP-5 Flats, 3-272-0-E	Repair 6 bulkhead stiffeners that are no longer attached to the deck*	2 FT

* Indicates a compartment with an interference listed below

3.1.2 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to:

- Zone 6: Piping, Magazine
- Zone 13: Piping, Turbid Tank, Reefer, JP-5 Tanks

3.2 Nondestructive testing. The Contractor shall conduct non-destructive testing of new structure, using magnetic particle, liquid penetrant, or eddy current methods, either singly or in combination, as appropriate. The Contractor shall perform all welding inspection requirements as specified in STD Spec 0740_STD. Submit a CFR.

3.4 Touch-up preservation. The Contractor shall prepare and touch-up coat all disturbed surfaces to match existing adjacent surfaces in accordance with Std Spec 0000_STD, paragraph titled "General preservation requirements"; and in accordance with COMDTINST M10360.3, Appendix B (Cutters and Boats Interior Painting Systems).

4. NOTES

This section is not applicable to this work item.

WORK ITEM 6: Renew Piping

1. SCOPE

1.1 Intent. This work item describes the requirements for the Contractor to renew approximately 40 linear feet of various piping systems, as designated by the Coast Guard inspector.

1.2 Government-furnished property.

None

2. APPLICABLE DOCUMENTS

Coast Guard Commandant Instruction (COMDTINST) M10360.3B, (series), June 2006, Coatings and Color Manual

Coast Guard Drawing 378-FRAM-E_542_2, Rev F, JP-5 Fuel System

Coast Guard Drawing 378-FRAM-E_533_12, Rev F, Potable Water Machinery Space L/M

Coast Guard Drawing 378-FRAM-E_533_9, Rev G, Potable Water System FWD Frame 192 L/M

Coast Guard Drawing 378-FRAM-E_541_16, Rev D, FO Transfer Aft Frame 256

Coast Guard Drawing 378 FRAM E 508-1, Rev E, Insulation, Lagging, Piping - Machinery

3. REQUIREMENTS

3.1 General. The Contractor shall renew approximately 40 linear feet of piping in the compartments listed below, as designated by the Coast Guard Inspector. Renew piping systems using materials described in applicable Coast Guard Drawing. The Contractor shall physically verify all dimensions and vessel conditions prior to commencing work.

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3.1.1 Compartment List.

ZONE NUMBER	COMPARTMENT	DESCRIPTION OF WORK	APPROXIMATE AREA
1	Engine Room, 5-192-01-E	Renew 3" Carbon Steel (ASTM-A 106 Schedule 40) piping for JP-5 underneath of evaporator.** *	25 FT
13	JP-5 Flats, 3-272-0-E	Renew areas of deep pitting in aft fuel overflow piping. Renew section of 10" aft overflow specialized piping*	5 FT 10 FT

* Indicates a compartment with an interference listed below

**Indicates additional comments in requirements section

3.2 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to the following:

- Zone 1: Evaporator, Frames, Piping, JP-5 Removal, Gas Free for fuel
- Zone 13: Electrical Controls, Fuel System

3.3 Piping Renewal. Current layout for JP-5 piping in vicinity of evaporator does not have an effective flange point. Contractor shall submit a CFR detailing plans for new piping layout upon renewal, including cropping point and path of new piping.

3.5 Preservation Coat the newly installed piping and insulation in accordance with COMDTINST M10360.3B. Select color to match existing adjacent surfaces. The Contractor shall prepare and coat all new and disturbed surfaces to match existing adjacent surfaces, in accordance with COMDTINST M10360.3B.

3.6 Nondestructive testing. The Contractor shall conduct non-destructive testing of new JP-5 and FO overflow piping, using magnetic particle, liquid penetrant, or eddy current methods, either singly or in combination, as appropriate. The Contractor shall perform all welding inspection requirements as specified in STD Spec 0740_STD. Submit a CFR.

4. NOTES

This section is not applicable to this work item.

WORK ITEM 7: Repair Piping

1. SCOPE

1.1 Intent. This work item describes the requirements for the Contractor to repair 2 failures in various piping systems, as designated by the Coast Guard inspector.

1.2 Government-furnished property.

None

2. APPLICABLE DOCUMENTS

Coast Guard Commandant Instruction (COMDTINST) M10360.3B, (series), June 2006, Coatings and Color Manual

Coast Guard Drawing 378-FRAM-E_533_12, Rev F, Potable Water Machinery Space L/M

Coast Guard Drawing 378-FRAM-E_533_9, Rev G, Potable Water System FWD Frame 192 L/M

Coast Guard Drawing 378 FRAM E 508-1, Rev E, Insulation, Lagging, Piping - Machinery

3. REQUIREMENTS

3.1 General. The Contractor shall repair 2 failures in piping in the compartments listed below, as designated by the Coast Guard Inspector.

3.1.1 Compartment List.

ZONE NUMBER	COMPARTMENT	DESCRIPTION OF WORK	APPROXIMATE AREA
1	Engine Room, 5-192-01-E	Repair P/W line.*	Large Pinhole
3	FWD Sewage, 5-144-0-Q	Repair overhead P/W piping.	Large Pinhole

* Indicates a compartment with an interference listed below

3.2 Interferences. The Contractor shall be aware that interferences in way of work include, but are not limited to the following:

- Zone 1: Piping

3.3 Insulation Renewal. The Contractor shall renew the specified piping section's insulation and lagging using Coast Guard Drawing 378 FRAM E 508-1 as a guide. Remove and dispose of existing piping insulation in accordance with all Federal, state and local regulations.

3.4 Preservation Coat the newly installed piping and insulation in accordance with COMDTINST M10360.3B. Select color to match existing adjacent surfaces. The Contractor shall prepare and coat all new and disturbed surfaces to match existing adjacent surfaces, in accordance with COMDTINST M10360.3B.

3.5 Operational Test. The Contractor shall flush and perform an operational test of the potable water system at 125% of normal operating pressure in the presence of the Coast Guard Inspector. Correct any leaks or discrepancies.

3.6 Piping Disinfecting. After all other work involving the potable water system and tank closing have been completed, the Contractor shall disinfect and treat the affected potable water system, as necessary to meet or exceed the requirements of AWWA C652. After disinfecting, remove and dispose of all treated water in accordance with all Federal, state and local regulations.

4. NOTES

This section is not applicable to this work item.

WORK ITEM 8: Renew Doors, Hatches, and Scuttles**1. SCOPE**

1.1 Intent. This work item describes the requirements for the Contractor to renew 9 watertight fittings located throughout the ship as designated by a Coast Guard Inspector.

1.2 Government-furnished property.

MTI	ITEM DESCRIPTION	NSN/PN	QTY	ESTIMATED COST (\$/UNIT)
Y	QAWTD, 8 Dog, 26X66, LH Steel	NN: 2040-00-912-5778 2675.51	1	2675.51
Y	QAWTD, 8 Dog, 26X66, RH Steel	NSN: 2040-00-912-5777	1	3616.33
Y	WTS, Flush 21", Steel	NSN: 2040-00-554-6911	1	1523.65
Y	QAWTS, Raised 21", Steel	NSN: 2040-00-554-6909	2	657.74

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA),
Standard Specification 0000_STD, 2004 Edition, General
Requirements

Coast Guard Commandant Instruction (COMDTINST) M10360.3,
(series), June 2006, Coatings and Color Manual

Coast Guard Drawing 378 FRAM-E 167-002, Rev D, List of Hatches,
Scuttles and Accessories

Coast Guard Drawing 378 FRAM-E 167-003, Rev F, List of
Structural Doors & Accessories

3. REQUIREMENTS

3.1 General. The Contractor shall replace the 9 watertight fittings in the compartments listed below as designated by the Coast Guard Inspector.

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3.1.1 Compartment List.

ZONE NUMBER	COMPARTMENT	DESCRIPTION OF WORK	FITTING NUMBER
11	Start Air, 3-192-0-E	WTS Hinges beyond service or repair, renew scuttle and hinges, 21", Flush, non quick acting*	3-194-2
14	Reefer Flats, 3-280-0-Q	Renew 2 non-serviceable Man Hole Covers, 19"X27"	4-280-2-W, Void4-296-0
37	Aft Steering, 2-320-0-E	Renew Man Hole Cover, bolt holes no longer serviceable, 19"X27"	3-328-1-F
38	Foc's'le	Renew, QAWTS, Steel, 3 Dog, 21"	1-25-1
39	P-Way, 1-64-0-L	Renew 2 QAWTD's and frames, Steel, 8 Dog, 26" X 66"	1-64-1 1-64-4
43	Gun Deck	Renew QAWTS, Steel, 3 Dog, 21"	01-67-1
44	Fan Space, 01-97-1-Q	Renew QAWTD, Steel, 8 Dog, 26"X65"	01-98-1

* Indicates a compartment with an interference listed below

3.2 Protective measures. The Contractor shall provide protective covering while the doors, hatch, and scuttles are removed. Ensure that covering is installed daily at the end of the workday.

3.3 Renewal. The Contractor shall accomplish the following using the drawings listed in Section 2 above as guidance:

3.3.1 Crop, remove, and dispose of the designated doors, including associated door frame, and hatch, and scuttles.

3.3.2 Install the new Government furnished door assemblies/hatch/scuttles in place of the one removed. Perform all necessary modifications to ensure proper fitting. Provide new gaskets and fasteners, as applicable with new the installations.

3.4 Preservation. The Contractor shall preserve the new doors, hatch, and scuttles, and all other disturbed surfaces to match exiting adjacent surfaces, in accordance with Std Spec 0000_STD, paragraph titled "General preservation requirements", and in accordance with COMDTINST M10360.3; and as follows:

3.4.1 Interior surfaces. Coat interior surface using the coating system specified for "Door, Joiner, Option I" in Appendix B (Cutters and Boats Interior Painting Systems).

3.4.2 Exterior surfaces. Coat exterior surfaces using the coating system specified for "Freeboard/Superstructure/Mast (Freeboard/Superstructure, Steel), Option I", in Appendix A (Cutters and Boats Exterior Painting Systems).

NOTICE!

Do not paint knife-edges, gaskets, or any moving parts; including dogs, nuts, wedges, spindles, yokes, packing, connecting rods and hinge pins.

3.5 Closure. The Contractor shall demonstrate 100 percent gasket contact and proper dog operation by means of a chalk test for each renewal. Ensure that initial contact between gasket and knife edge occurs throughout extent of gasket before final securing of dogs, and without use of excessive closing force. If the mark on the gasket is not uniform, adjust as necessary to achieve uniform contact and retest.

4. NOTES

4.1 Damage control markings. The Coast Guard Inspector will apply appropriate damage control decals onto doors, hatch, and scuttles, as appropriate.

WORK ITEM 9: Renew Additional Fittings**1. SCOPE**

1.1 Intent. This work item describes the requirements for the Contractor to renew 5 additional optional watertight and non-tight fittings located throughout the ship as designated by a Coast Guard Inspector.

1.2 Government-furnished property.

MTI	ITEM DESCRIPTION	NSN/PN	QTY	ESTIMATED COST (\$/UNIT)
Y	QAWTD, 10 Dog, 26X66, RH Steel	NSN: 2040-00-912-6167	2	3354.56
Y	QAWTD, 10 Dog, 26X66, LH Steel	NSN: 2040-00-912-5781	1	3246.15
Y	QAWTS, Raised 21", Steel	NSN: 2040-00-554-6909	1	657.74
N	NTD, 26" X 44" LH, Aluminum	Non-Stock	1	2000.00

2. APPLICABLE DOCUMENTS

Coast Guard Maintenance and Logistics Command Atlantic (MLCA),
Standard Specification 0000_STD, 2004 Edition, General
Requirements

Coast Guard Commandant Instruction (COMDTINST) M10360.3,
(series), June 2006, Coatings and Color Manual

Coast Guard Drawing 378 FRAM-E 167-002, Rev D, List of Hatches,
Scuttles and Accessories

Coast Guard Drawing 378 FRAM-E 167-003, Rev F, List of
Structural Doors & Accessories

3. REQUIREMENTS

3.1 General. The Contractor shall replace the 13 watertight and non-tight fittings in the compartments listed below as designated by the Coast Guard Inspector.

3.1.1 Compartment List.

ZONE NUMBER	COMPARTMENT	DESCRIPTION OF WORK	FITTING NUMBER
46	Weight Room, 01-180-0-Q	Renew 2 QAWTD's, Steel, 10-Dog, 26"X66", 6" Combing	01-182-1 01-182-2
47	Fan Plenum, 01-203-1-Q	Renew aluminum NTD, 26"X44"	1-203-1
48	Fan Plenum, 01-203-2-Q	Renew QAWTS, steel, 3 Dogs, 18"	01-203-2
50	MK92 Room, 04-106-0-C	Renew QAWTD and frame, Steel, 10 Dog, 26"X66",	04-114-1

* Indicates a compartment with an interference listed below

3.2 Protective measures. The Contractor shall provide protective covering while the doors, hatch, and scuttles are removed. Ensure that covering is installed daily at the end of the workday.

3.3 Renewal. The Contractor shall accomplish the following using the drawings listed in Section 2 above as guidance:

3.3.1 Crop, remove, and dispose of the designated doors, including associated door frame, and hatch, and scuttles.

3.3.2 Install the new Government furnished door assemblies/hatch/scuttles in place of the one removed. Perform all necessary modifications to ensure proper fitting. Provide new gaskets and fasteners, as applicable with new the installations.

3.4 Preservation. The Contractor shall preserve the new doors, hatch, and scuttles, and all other disturbed surfaces to match exiting adjacent surfaces, in accordance with Std Spec 0000_STD, paragraph titled "General preservation requirements", and in accordance with COMDTINST M10360.3; and as follows:

3.4.1 Interior surfaces. Coat interior surface using the coating system specified for "Door, Joiner, Option I" in Appendix B (Cutters and Boats Interior Painting Systems).

3.4.2 Exterior surfaces. Coat exterior surfaces using the coating system specified for "Freeboard/Superstructure/Mast (Freeboard/Superstructure, Steel), Option I", in Appendix A (Cutters and Boats Exterior Painting Systems).

NOTICE!

Do not paint knife-edges, gaskets, or any moving parts; including dogs, nuts, wedges, spindles, yokes, packing, connecting rods and hinge pins.

3.5 Closure. The Contractor shall demonstrate 100 percent gasket contact and proper dog operation by means of a chalk test for each renewal. Ensure that initial contact between gasket and knife edge occurs throughout extent of gasket before final securing of dogs, and without use of excessive closing force. If the mark on the gasket is not uniform, adjust as necessary to achieve uniform contact and retest.

4. NOTES

4.1 Damage control markings. The Coast Guard Inspector will apply appropriate damage control decals onto doors, hatch, and scuttles, as appropriate.